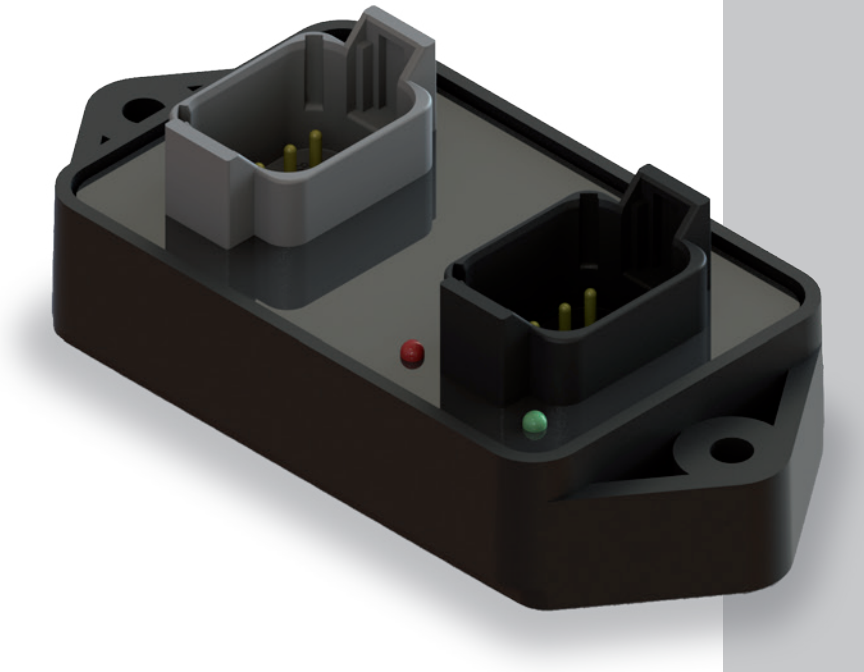
NEW

PVD200

Proportional Valve Driver



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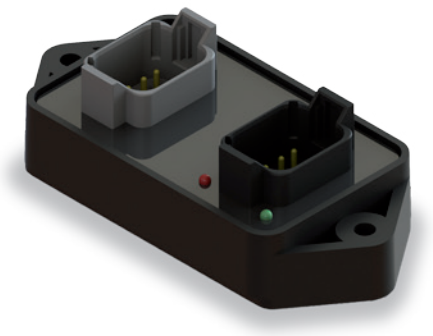
PVD200 Proportional Valve Driver

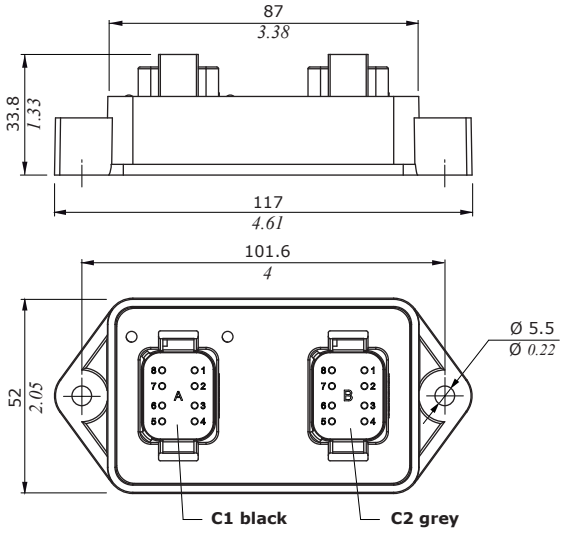


The PVD200 is a microprocessor-based PWM driver designed to control 4 proportional solenoid valves (2+2).
Delivered in a potted enclosure, the PVD200 provides a flexible I/O configuration in a compact package, specifically designed to resist water, temperature, humidity and high vibrations typical of harsh environments.
The PVD200 can manage input signals coming from switches, rollers, potentiometer and PLC's, both analog and CAN bus.
The working parameters (minimum and maximum currents, ramp times, dither) can be easily programmed with a PC and the WST interface.

- ☐ **Solenoid currents measurement (to compensate changes in coil resistance, temperature and supply voltage)**
- ☐ **Programmable dither frequency (to reduce spool sticking)**
- ☐ **Protected power supply (against reversed polarity and load dump)**
- ☐ **Protected inputs (against short circuits to GND and to power supply)**
- ☐ **Protected outputs (against short circuits, reversed polarity, over-current and over-temperature)**
- ☐ **Sensors supply 5V output (e.g. for joysticks or spool position sensors)**

Technical data	
General features	
Supply voltage	from 8 to 32 V
Current consumption (without external load)	<50 mA
Max. current output	2 A per channel at 12 VDC
EMC compatibility	ISO13766, ISO14982
Working temperature	from -40 to +85°C (*from -40°F to 185°F*)
Protection degree	IP67-IP69K with mating connector fitted
Output connector	Deutsch DT0408PA - Amphenol AT0408PA
Input connector	Deutsch DT0408PB - Amphenol AT0408PB
Analog inputs	
Number	up to 4
Signal type	type F: 0.5-4.5 V / type P: 25%-75% Vbb temperature (NTC sensors) / 4-20mA
Communication port	
RS232 or CAN bus 2.0B port (CANopen and SAE j1939 protocols)	
Proportional outputs	
Number	4 (2 pairs)
Type	4HSD + 2LSD*
Signal	PWM on HSD*
Dither frequency	From 50Hz to 300Hz
Max. load per channel	2A
Other outputs	
2 led for status indication	
1 output	5V@50mA max. or battery voltage@200mA max.

NOTE (*): HSD - High Side Driver / LSD - Low Side Driver

APPLICATIONS
The PVD200 can be used as a stand-alone unit or as an I/O module in a CAN bus distributed network.
Some typical applications are:

- ☐ **Directional valve driver (up to 2 sections)**
- ☐ **FAN drive control system (with CAN bus and analog sensors)**
- ☐ **Analog to CAN converter (for analog sensors cluster)**
- ☐ **Network extension (e.g. as CANopen slave)**